

WHAT IS CLAIMED IS:

1. An address translating program for  
translating an address of a packet transmitted and  
5 received between a client and a server which are connected  
to each other through a proxy server, said address  
translating program enabling a computer to perform a  
process of:

receiving a request packet, which has a source  
10 address translated into the address of said proxy server,  
output from said client to said server via said proxy  
server, and analyzing contents of said request packet to  
acquire the address of said client;

translating said source address of said request  
15 packet into the acquired address of said client and  
transmitting said request packet to said server; and

receiving a response packet in response to said  
request packet from said server, translating a destination  
address of said response packet from the address of said  
20 client into the address of said proxy server, and  
transmitting said response packet to said proxy server.

2. An address translating program according to  
claim 1, wherein said address translating program enables  
25 the computer to perform a process of:

for changing said source address of said  
request packet, acquiring the address of said proxy server

from a storage area in which the address of said proxy server is registered in advance.

3. An address translating program according to  
5 claim 1, wherein said address translating program enables the computer to perform a process of:

when said source address of said request packet is translated, storing the address of said proxy server set as said source address to be translated and the 10 address of said client set as said source address that is translated, in association with each other in a database;

when said response packet is received, referring to said database to determine the address of said client to be set as said destination address.

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4. An address translating program according to claim 1, wherein said address translating program enables the computer to perform a process of:

after the address of said client is acquired, 20 generating a communication identifier capable of uniquely identifying said request packet;

translating a source communication identifier of said request packet into the generated communication identifier, at the same time that the source address of 25 said request packet is translated, and transmitting said request packet to said server;

when the source address of said request packet and said communication identifier are translated, storing contents of said source address and said source communication identifier that are to be translated and  
5 contents of said source address and said source communication identifier that are translated, in association with each other in a database;

when said response packet is received, referring to said database to determine the address of  
10 said client to be set as said destination address, and translating a destination communication identifier of said response packet into said source communication identifier to be translated which is registered in said database.

15 5. An address translating program according to claim 1, wherein the address of said client is acquired from an application header in said request packet.

6. An address translating method for  
20 translating an address of a packet transmitted and received between a client and a server which are connected to each other through a proxy server, said address translating method comprising the steps of:

receiving a request packet, which has a source  
25 address translated into the address of said proxy server, output from said client to said server via said proxy

server, and analyzing contents of said request packet to acquire the address of said client;

translating said source address of said request packet into the acquired address of said client and  
5 transmitting said request packet to said server; and

receiving a response packet in response to said request packet from said server, translating a destination address of said response packet from the address of said client into the address of said proxy server, and  
10 transmitting said response packet to said proxy server.

7. An address translating apparatus for translating an address of a packet transmitted and received between a client and a server which are connected to each other through a proxy server, said address translating method comprising the steps of:

client address acquiring means for receiving a request packet, which has a source address translated into the address of said proxy server, output from said client to said server via said proxy server, and analyzing contents of said request packet to acquire the address of said client;

source address translating means for translating said source address of said request packet into the acquired address of said client and transmitting said request packet to said server; and

destination address translating means for receiving a response packet in response to said request packet from said server, translating a destination address of said response packet from the address of said client  
5 into the address of said proxy server, and transmitting said response packet to said proxy server.

8. A computer-readable recording medium recording therein an address translating program for  
10 translating an address of a packet transmitted and received between a client and a server which are connected to each other through a proxy server, said address translating program enabling a computer to perform a process of:

15 receiving a request packet, which has a source address translated into the address of said proxy server, output from said client to said server via said proxy server, and analyzing contents of said request packet to acquire the address of said client;

20 translating said source address of said request packet into the acquired address of said client and transmitting said request packet to said server; and

25 receiving a response packet in response to said request packet from said server, translating a destination address of said response packet from the address of said client into the address of said proxy server, and transmitting said response packet to said proxy server.